

Submit 1 Copy To Appropriate District Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO.

30-015-34866

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Imperial State

8. Well Number #5

9. OGRID Number

229137

10. Pool name or Wildcat

Loco Hills; Glorietta Yeso

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

COG Operating, LLC

3. Address of Operator

600 W. Illinois Ave, Midland, TX 79701

4. Well Location

Unit Letter J : 2310 feet from the S line and 1650 feet from the E line

Section 16 Township 17S Range 30E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3676' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

DOWNHOLE COMMINGLE ☐

CLOSED-LOOP SYSTEM ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ P AND A ☐

CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

*Attempt to Run 1" Tbs to Pump Cement to Bottom*

1. Set packer @ 2750'. Squeeze 100 sx cmt & displace to 2850'. WOC & Tag.

2. Circulate hole w/ MLF.

3. Perf & Sqz 45 sx cmt @ 1291-1191'. WOC & Tag. (8 5/8" Shoe)

4. Perf & Sqz 45 sx cmt @ 460-360'. WOC & Tag. (13 3/8" Shoe)

5. Perf & Sqz 45 sx cmt @ 60' to surface.

6. Cut off well head, verify cmt to surface, weld on Dry Hole Marker.

RECEIVED

MAY 16 2019

DISTRICT II-ARTESIA O.C.D.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

*Abigail Anderson*

TITLE

*Agent*

DATE

*05/14/2019*

Type or print name

*Abigail Anderson*

E-mail address:

*abbym@bcmmandassociates.com*

PHONE:

*432-580-7161*

For State Use Only

APPROVED BY:

*[Signature]*

TITLE

*State Agent*

DATE

*5/23/19*

Conditions of Approval (if any):

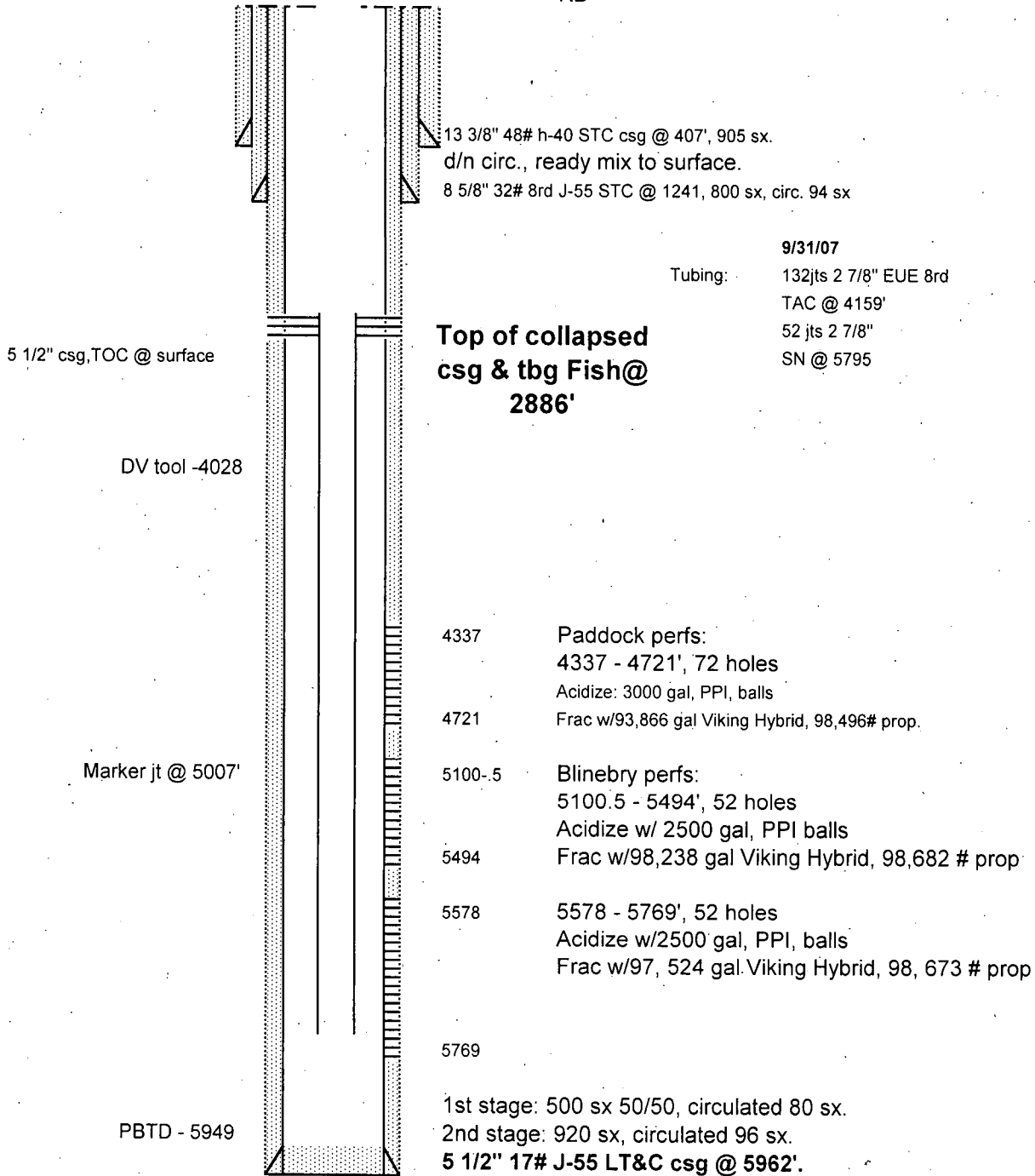
# COG Operating LLC

Lease & Well #  
30-015-34866

Imperial State # 5

Elevation - 3676

KB -



# COG Operating LLC

## Lease & Well #

30-015-34866

Elevation - 3676

## Imperial State # 5

KB -

### 5. Perf & Sqz 45 sx cmt @ 60' to Surface

13 3/8" 48# h-40 STC csg @ 407', 905 sx.

d/n circ., ready mix to surface.

### 4. Perf & Sqz 45 sx cmt @ 460-360'. WOC & Tag

8 5/8" 32# 8rd J-55 STC @ 1241, 800 sx, circ. 94 sx

### 3. Perf & Sqz 45 sx cmt @ 1291-1191'. WOC & Tag (8 5/8" Shoe)

### 2. Circ hole w/ MLF.

### 1. Set packer @ 2750'. Sqz 100 sx cmt & displace to 2850'. WOC & Tag

**Top of collapsed  
csg & tbg Fish@  
2886'**

9/31/07

Tubing: 132jts 2 7/8" EUE 8rd  
TAC @ 4159'  
52 jts 2 7/8"  
SN @ 5795

5 1/2" csg, TOC @ surface

DV tool -4028

Marker jt @ 5007'

PBTD - 5949

### 4337 Paddock perfs:

4337 - 4721', 72 holes

Acidize: 3000 gal, PPI, balls

4721 Frac w/93,866 gal Viking Hybrid, 98,496# prop.

### 5100-.5 Blinbry perfs:

5100.5 - 5494', 52 holes

Acidize w/ 2500 gal, PPI balls

5494 Frac w/98,238 gal Viking Hybrid, 98,682 # prop

5578 5578 - 5769', 52 holes

Acidize w/2500 gal, PPI, balls

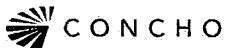
Frac w/97, 524 gal Viking Hybrid, 98, 673 # prop

5769

1st stage: 500 sx 50/50, circulated 80 sx.

2nd stage: 920 sx, circulated 96 sx.

**5 1/2" 17# J-55 LT&C csg @ 5962'.**



## Daily Completion and Workover

Well Name: IMPERIAL STATE #5

Report # 1.0, Report Date: 4/14/2015

API/UWI 30-015-34866	Surface Legal Location	Field Name LOCO HILLS	County EDDY	State NM	Well Configuration Type
Original KB Elevation (ft)	KB-Tubing Head Distance (ft)	Spud Date 7/7/2006 00:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

Job Category WS	Primary Job Type WS	Start Date 4/13/2015	End Date 4/17/2015
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Job Objective  
HIT PROCEDURE

Contractor MESA WELL SERVICE	#/Crew MESA 205	Rig Type Land Rig	Rig Start Date	Rig Release Date
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### Job Contacts

Contact Name ZILMER WARD	Title	Phone Mobile	Company	Email
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AFE Number	Total AFE & Supp Amount (cost)	Daily Field Est Total (cost) \$2,100	Cum Field Est To Date (cost) \$2,100
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### Daily Readings

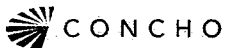
Report Start Date 4/13/2015	Report End Date 4/14/2015
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Operations at Report Time RODE WSU TO LOCATION	Operations Next Report Period
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Past 24 Hours Operation Summary

### Time Log

Start Time	End Time	Dur (hr)	Activity Code	Activity	Com
06:00	08:00	2.00	W	OT	RODE RIG TO LOCATION, SHUT DOWN DUE TO WEATHER



## Daily Completion and Workover

Well Name: IMPERIAL STATE #5

Report # 2.0, Report Date: 4/15/2015

API/UWI 30-015-34866	Surface Legal Location	Field Name LOCO HILLS	County EDDY	State NM	Well Configuration Type
Original KB Elevation (ft)	KB/Tubing Head Distance (ft)	Spud Date 7/7/2006 00:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

Job Category WS	Primary Job Type WS	Start Date 4/13/2015	End Date 4/17/2015
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Job Objective  
HIT PROCEDURE

Contractor MESA WELL SERVICE	#/Crew MESA 205	Rig Type Land Rig	Rig Start Date	Rig Release Date
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Contact Name ZILMER WARD	Title	Phone Mobile	Company	Email
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A/E Number	Total A/E & Supp Amount (cost)	Daily Field Est Total (cost) \$5,700	Cum Field Est to Date (cost) \$7,800
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### Daily Readings

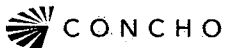
Report Start Date 4/14/2015	Report End Date 4/15/2015
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Operations at Report Time RU WSU FOR HOLE IN TBG	Operations Next Report Period
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Past 24 Hours Operation Summary  
DROVE RIG TO LOCATION

### Time Log

Start Time	End Time	Dur (hr)	Activity Code	Activity	Com
06:00	08:00	2.00	W	OT	CREW TO LOCATION, TAILGATE MEETING, RU WSU, TBG LEAKED OFF, UNHANG WELL, UNSEAT PUMP 5700
08:00	10:00	2.00	W	TR	TOOH WITH 63 X 7/8 T-66 RODS, 165 X 3/4 T-66 RODS, 2.5 X 1.5 X 20' PUMP
10:00	16:00	6.00	W	OT	ND WELL HEAD, NU BOP, TRY TO RELEASE TAC, ROTATING AND WORKING UP TO 75 K, NO SUCCESS, LEFT 75 K TENSION, SECURE WELL,
16:00	06:00	14.00	W	SN	SDON, PREP TO TRY AND CIRCULATE IN AM



## Daily Completion and Workover

Well Name: IMPERIAL STATE #5

Report # 3.0, Report Date: 4/16/2015

API/UWI 30-015-34866	Surface Legal Location	Field Name LOCO HILLS	County EDDY	State NM	Well Configuration Type
Original KB Elevation (ft)	KB/Tubing Head Distance (ft)	Spud Date 7/7/2006 00:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

Job Category WS	Primary Job Type WS	Start Date 4/13/2015	End Date 4/17/2015
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Job Objective  
HIT PROCEDURE

Contractor MESA WELL SERVICE	#/Crew MESA 205	Rig Type Land Rig	Rig Start Date	Rig Release Date
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Job Contacts

Contact Name ZILMER WARD	Title	Phone Mobile	Company	Email
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A/E Number	Total A/E & Supp Amount (cost)	Daily Field Est Total (cost) \$12,300	Cum Field Est To Date (cost) \$20,100
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Daily Readings

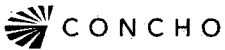
Report Start Date 4/15/2015	Report End Date 4/16/2015
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Operations at Report Time PUMP 260 BBLS WATER TO TRY AND WASH OFF TOP OF TAC	Operations Next Report Period
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Past 24 Hours Operation Summary  
MIRU WSU, PULL RODS AND PUMP, WORK ON STUCK TAC

Time Log

Start Time	End Time	Dur (hr)	Activity Code	Activity	Com
06:00	17:00	11.00	W	OT	CREW TO LOCATION, TAILGATE MEETING, FUNCTION TEST BOP, PUMP 260 BBLS FRESH WATER TO ATTEMPT TO WASH OFF TOP OF TAC, NO SUCCESS, TRY ROTATING AND JARRING ON TAC, WITH NO SUCCESS, MIRU ROTARY WLU, POP STRING SHOT IN TAC @ 4155' KB, WITH 70 K PULLED AND 5 ROUNDS TORQUE, NO LUCK ON GETTING ANCHOR LOOSE, TBG STARTED GASSING, KILL TBG, FREEPOINT TBG STRING, FOUND TBG 100% STUCK @ 2875' WLM, PULL OUT OF HOLE WITH FREEPOINT TOOL, ND BOP, FLANGE WELL UP
17:00	06:00	13.00	W	SN	SDON, PREP TO LD RODS IN AM



## Daily Completion and Workover

Well Name: IMPERIAL STATE #5

Report # 4.0, Report Date: 4/17/2015

API/UWI 30-015-34866	Surface Legal Location	Field Name LOCO HILLS	County EDDY	State NM	Well Configuration Type
Original KB Elevation (ft)	KB-Stubing Head Distance (ft)	Spud Date 7/7/2006 00:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

Job Category WS	Primary Job Type WS	Start Date 4/13/2015	End Date 4/17/2015
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Job Objective  
HIT PROCEDURE

Contractor MESA WELL SERVICE	#Crew MESA 205	Rig Type Land Rig	Rig Start Date	Rig Release Date
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### Job Contacts

Contact Name ZILMER WARD	Title	Phone Mobile	Company	Email
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AFE Number	Total AFE + Supp Amount (cost)	Daily Field Est Total (cost) \$2,900	Cum Field Est To Date (cost) \$28,000
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### Daily Readings

Report Start Date 4/16/2015	Report End Date 4/17/2015
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Operations at Report Time LD ROD, WELL PREPPED FOR PLUGGERS	Operations Next Report Period
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Past 24 Hours Operation Summary  
JAR ON TBG, RUN FREEPOINT

### Time Log

Start Time	End Time	Dur. (hr)	Activity Code	Activity	Com
06:00	07:00	1.00	W	OT	CREW TO LOCATION, TAILGATE MEETING
07:00	11:00	4.00	W	TR	LD 165 X 3/4 T-66 RODS, 63 X 7/8 T-66 RODS, RUN IN 78 RODS AT A TIME, AND TOOH LD RGODS,
11:00	11:30	2.00	W	OT	SECURE WELL, RDMO WSU, TOTP



## Daily Completion and Workover

Well Name: IMPERIAL STATE #5

Report # 1.0, Report Date: 5/7/2019

API/UWI 30-015-34866	Surface Legal Location	Field Name LOCO HILLS	County EDDY	State NM	Well Configuration Type
Original KB Elevation (ft)	KB-Tubing Head Distance (ft)	Spud Date 7/7/2006 00:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

Job Category WELL SERVICE	Primary Job Type TUBING REPAIR	Start Date 5/7/2019	End Date
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Job Objective  
TUBING REPAIR

Contractor APS	#/Crew 808	Rig Type	Rig Start Date 5/7/2019	Rig Release Date
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### Job/Contacts

Contact Name NEAL CHRISTMAN	Title OPERATIONS FIELD ENGINEER	Phone Mobile (432)269-7708	Company COG	Email TREBENACK@CONCHO.CO M
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AFE Number N/A	Total AFE & Supp Amount (cost)	Daily Field Est Total (cost) \$2,815	Cum Field Est To Date (cost) \$2,815
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### Daily Readings

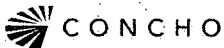
Report Start Date 5/7/2019	Report End Date 5/7/2019
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Operations at Report Time MIRU WSU, PULL TBG	Operations Next Report Period Freepoint/cut TBG
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### Past 24 Hours Operation Summary

Crew to location, PJSM, JSA, MIRU WSU, LOTO/Chain securement, HH already off unit, TBG/CSG blown down, ND WH, could not release TAC, NU and function test BOP, PU 1 Jt - 2 7/8" J-55 YB TBG to jar on the TBG, tried pulling 60K, only got a couple feet of stretch, tried dropping it down to nothing multiple times, still would not move, started pumping down backside, tried to rotate w/ tongs while pulling 25-30K on it, could only rotate it about a half a turn, LD 1 Jt TBG, hole loaded up after pumping 70 bbls, tied back to 2 lines, PU 8' sub to pull harder on it, pulled 80-85K on it, tried rotating again, no progress, pulled 90K on it, tried rotating w/ tongs again, still only rotated about 1 turn, tried pulling on it some more @ 90K, no luck picking it up and dropping it, pumped down backside again, loaded up after 49 bbls, taking a fluid slowly, secure well, open CSG to flowline, SDON. Rotary Wireline lined up for first thing tomorrow morning.





# Daily Completion and Workover

Well Name: IMPERIAL STATE #5

Report # 2.0, Report Date: 5/8/2019

API/UWI 30-015-34866	Surface Legal Location	Field Name LOCO HILLS	County EDDY	State NM	Well Configuration Type
Original KB Elevation (ft)	KB-Tubing Head Distance (ft)	Spud Date 7/7/2006 00:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

Job Category WELL SERVICE	Primary Job Type TUBING REPAIR	Start Date 5/7/2019	End Date
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Job Objective  
TUBING REPAIR

Contractor APS	#Crew 808	Rig Type	Rig Start Date 5/7/2019	Rig Release Date
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## Job Contacts

Contact Name NEAL CHRISTMAN	Title OPERATIONS FIELD ENGINEER	Phone Mobile (432)269-7708	Company COG	Email TREBENACK@CONCHO.CO M
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AFE Number N/A	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) \$13,955	Cum Field Est To Date (Cost) \$16,770
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## Daily Readings

Report Start Date 5/8/2019	Report End Date 5/8/2019
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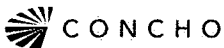
Operations at Report Time Freepoint/cut TBG	Operations Next Report Period wash over stuck tbg, TIH w/ overshot to POOH w/ remaining TBG
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## Past 24 Hours Operation Summary

Crew to location, PJSM, JSA, bleed down TBG/CSG to no blow, function test BOP, MIRU Rotary Wireline truck and freepoint tool, TIH w/ freepoint, ran into some paraffin/trash in hole around 1630', freed up around 1720', got down to 2905', TBG 100% stuck, pulled up, tight spot from 2880'-2872', TBG 100% stuck @ 2876', TBG free at 2868', POOH w/ freepoint tool, prep to cut 15' above free point @ 2853', RU paraffin knife, make a couple runs down to 2880' to make room for cutting tool, RU cutting tool, TIH and fired chemical cutter shot @ 2853', TOOH w/ cutting tool, pulled up on TBG to about 24K, did not come loose, pulled up and dropped a couple times, still nothing, tried rotating w/ tongs while pulling about 25K, would only rotate about 1-1.5 turns and did not come loose, cleared rig floor, pulled 70K and parted, RDMO Rotary Wireline, tied back to 1 line, TOOH w/ TBG, LD Jt that we cut and 1 Jt above, have some heavy pitting, have a very clean cut at the bottom, PU and TIH w/ 4 3/4" shoe, 2 Jts - 4 1/2" wash pipe, top bushing, 3 3/4" Jars, 4 - 3 1/2" drill collars, 3 1/2" to 2 7/8" XO, 82 - Jts 2 7/8" TBG down to 2800', just above top of fish, RU stripper head and got swivel set up for the morning, secure well, SDON.

## Tubing Pulled

Pull Time 09:30	Tubing Description Production Tubing	Set Depth (ftKB) 5,795.0	String Max Nominal OD (in) 2 7/8	Weight/Length (lb/ft) 6.50	String Grade J-55
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## Daily Completion and Workover

Well Name: IMPERIAL STATE #5

Report # 3.0, Report Date: 5/9/2019

API/UWI 30-015-34866	Surface Legal Location	Field Name LOCO HILLS	County EDDY	State NM	Well Configuration Type
Original KB Elevation (ft)	KB-Tubing Head Distance (ft)	Spud Date 7/7/2006 00:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

Job Category WELL SERVICE	Primary Job Type TUBING REPAIR	Start Date 5/7/2019	End Date
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Job Objective  
TUBING REPAIR

Contractor APS	#Crew 808	Rig Type	Rig Start Date 5/7/2019	Rig Release Date
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### Job Contacts

Contact Name NEAL CHRISTMAN	Title OPERATIONS FIELD ENGINEER	Phone Mobile (432)269-7708	Company COG	Email TREBENACK@CONCHO.CO M
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AFE Number N/A	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) \$13,162	Cum Field Est To Date (Cost) \$29,982
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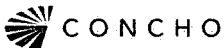
### Daily Readings

Report Start Date 5/9/2019	Report End Date 5/9/2019
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Operations at Report Time wash over stuck tbg	Operations Next Report Period TIH and continue milling bad spot
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### Past 24 Hours Operation Summary

Crew to location, PJSM, JSA, bleed down TBG/CSG to no blow, function test BOP, LD 2 Jts TBG, TIH w/ 2 stands, RU swivel, PU 1 Jt, start pumping @ 2 bpm, increase to 3 bpm, would not circulate, according to TBG tally, we tagged up at @ 2859' and started rotating, we think the collapse caused the tubing to get held up against the side of the casing, had to mill through top of fish down to the stuck spot around 2873', sometimes could make about 6" of hole quickly, but for the most part slowly made 18' total hole for the day, got down to 2877' and completely stopped making progress, we think we're now over and past the ~15' of cut TBG and at the collapsed part of the casing, TOOH w/ TBG and tools to evaluate condition of shoe, secure well, SDON.



## Daily Completion and Workover

Well Name: IMPERIAL STATE #5

Report # 4.0, Report Date: 5/10/2019

API/UWI 30-015-34866	Surface Legal Location	Field Name LOCO HILLS	County EDDY	State NM	Well Configuration Type
Original KB Elevation (ft)	KB-Tubing Head Distance (ft)	Spud Date 7/7/2006 00:00	Rig Release Date	PBTD(All)(ftKB)	Total Depth All (TVD)(ftKB)

Job Category WELL SERVICE	Primary Job Type TUBING REPAIR	Start Date 5/7/2019	End Date
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Job Objective  
TUBING REPAIR

Contractor APS	#Crew 808	Rig Type	Rig Start Date 5/7/2019	Rig Release Date
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### Job Contacts

Contact Name NEAL CHRISTMAN	Title OPERATIONS FIELD ENGINEER	Phone Mobile (432)269-7708	Company COG	Email TREBENACK@CONCHO.CO M
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AFE Number N/A	Total AFE + Supp Amount (cost)	Daily Field Est Total (cost) \$10,573	Cum Field Est To Date (cost) \$40,505
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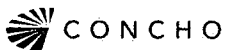
### Daily Readings

Report Start Date 5/10/2019	Report End Date 5/10/2019
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Operations at Report Time TIH and continue milling bad spot	Operations Next Report Period TIH and continue milling bad spot
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### Past 24 Hours Operation Summary

Crew to location, PJSM, JSA, bleed down TBG/CSG to no blow, function test BOP, remove about 4' of the stuck cut TBG out of shoe and about 13' TBG out of washpipe along with what appears to be a few pieces of wound up casing as well, the piece in the shoe had a strip cut vertically down one side of it, possibly where parted casing could have been cutting into it, or where the chemical from the wireline cutter shot might have got into that part of the TBG, hard to determine, TIH w/ 4 3/4" shoe, 4 Jts - 4 1/2" wash pipe, top bushing, 3 3/4" Jars, 4 - 3 1/2" drill collars, 3 1/2" to 2 7/8" XO, 82 - Jts 2 7/8" TBG down to 2877', right at bad/tight spot, RU swivel, pick up 1 Jt TBG, started making hole slowly, got down to about 2886', started circulating on us, RU stripper head and switch from forward to reverse circulation, pumping @ 2 bpm, got returns for about an hour, looks to be some shavings along with cement pieces and a few formation pieces, went on vacuum, switched back to forward circulation, made 9' more hole slowly to 2895', was not getting any further for about 45 min, TOOH w/ TBG and tools to check shoe and see if we have anything in washpipe, shoe looks very worn down again, smoothed out, had wound up pieces of casing again in shoe and also about 14' of the same in the washpipe, secure well, SDFW.



## Daily Completion and Workover

Well Name: IMPERIAL STATE #5

Report # 5.0, Report Date: 5/13/2019

API/UWI 30-015-34866	Surface Legal Location	Field Name LOCO HILLS	County EDDY	State NM	Well Configuration Type
Original KB Elevation (ft)	KB-Tubing Head Distance (ft)	Spud Date 7/7/2006 00:00	Rig Release Date	PBTD(All)(ftKB)	Total Depth All (TVD)(ftKB)

Job Category WELL SERVICE	Primary Job Type TUBING REPAIR	Start Date 5/7/2019	End Date
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Job Objective  
TUBING REPAIR

Contractor APS	#Crew 808	Rig Type	Rig Start Date 5/7/2019	Rig Release Date
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### Job Contacts

Contact Name NEAL CHRISTMAN	Title OPERATIONS FIELD ENGINEER	Phone Mobile (432)269-7708	Company COG	Email TREBENACK@CONCHO.COM
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AFE Number N/A	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) \$10,573	Cum Field Est To Date (Cost) \$51,078
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### Daily Readings

Report Start Date 5/13/2019	Report End Date 5/13/2019
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Operations at Report Time TIH and continue milling bad spot	Operations Next Report Period
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Past 24 Hours Operation Summary